

Straubing, 21 January 2004

TEST - REPORT

No. 55503-30850-1

for

FRN601U-T

type

Remote Control Transmitter

Applicant: applicant

Test Specification: FCC Code of Federal Regulations,
Part 15 Subpart C, Section 15.231

Industry Canada Radio Standards
Specification RSS-210 Issue 5
Section 6.1 (Category I Equipment)

Note:

The test data of this report relate only to the individual item which has been tested. This report shall not be reproduced except in full extent without the written approval of the testing laboratory.

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1. Administrative Data


Test item (EUT)	
Type designation	FRN601U-T
Serial number(s):	825
Type of equipment:	Remote Control Transmitter
Parts/accessories:	
FCC-ID:	AZP-FRN601U-T
Technical data	
Frequency range	315.95 – 319.05 MHz
Operational frequency	318.25 MHz
Type of modulation	F1D
Pulse frequency	N/A
Pulse width	N/A
Antenna	Integrated
Power supply	
Applicant: (full address)	Futaba Corporation Electronic Systems 1080, Yabutsuka Chosei-mura, Chosei-gun, Chiba-ken 299-4395 Japan
Contract identification:	---
Contact person:	Mr. Eiichi Nishizawa
Manufacturer:	Applicant
Application details	
Receipt of EUT:	23 December 2004
Date of test:	January 2004
Note:	
Responsible for testing:	Mr. Martin Steindl
Responsible for test report:	Mr. Martin Steindl

2. Identification of Test Laboratory

DETAILS OF THE TEST LABORATORY

COMPANY NAME:	Senton GmbH EMI/EMC Test Center
ADDRESS:	Aeussere Fruhlingsstrasse 45 D-94315 Straubing Germany
LABORATORY ACCREDITATION:	DAR-Registration No. TTI-P-G 062/94-01
FCC TEST SITE LISTING	90926
INDUSTRY CANADA TEST SITE REGISTRATION	IC 3050
NAME FOR CONTACT PURPOSES:	Mr. Johann Roidt
TELEPHONE: (+49) (0)9421 5522-0	FAX: (+49) (0)9421 5522-99

PERSONNEL INVOLVED IN THIS TEST REPORT

LABORATORY MANAGER:	 Mr. Johann Roidt
RESPONSIBLE FOR TESTING:	Mr. Martin Steindl
RESPONSIBLE FOR TEST REPORT:	Mr. Martin Steindl

SUMMARY OF TEST RESULTS

The tested sample complies with the requirements set forth in the **FCC Code of Federal Regulations Part 15, Subpart C, Section 15.231 and Industry Canada Radio Standards Specification RSS-210 Issue 5, Section 6.1. (Category I Equipment)**

3. Operation Mode of EUT

When the EUT is switched on, when one button is pressed, the transmitter continuously sends the corresponding datagram. When the button is released, the transmitter stops working instantly.

4. Configuration**Configuration of the EUT**

Not applicable

Cables connected to the EUT

Not applicable

Peripheral devices connected to the EUT

Not applicable

5. Measuring Methods

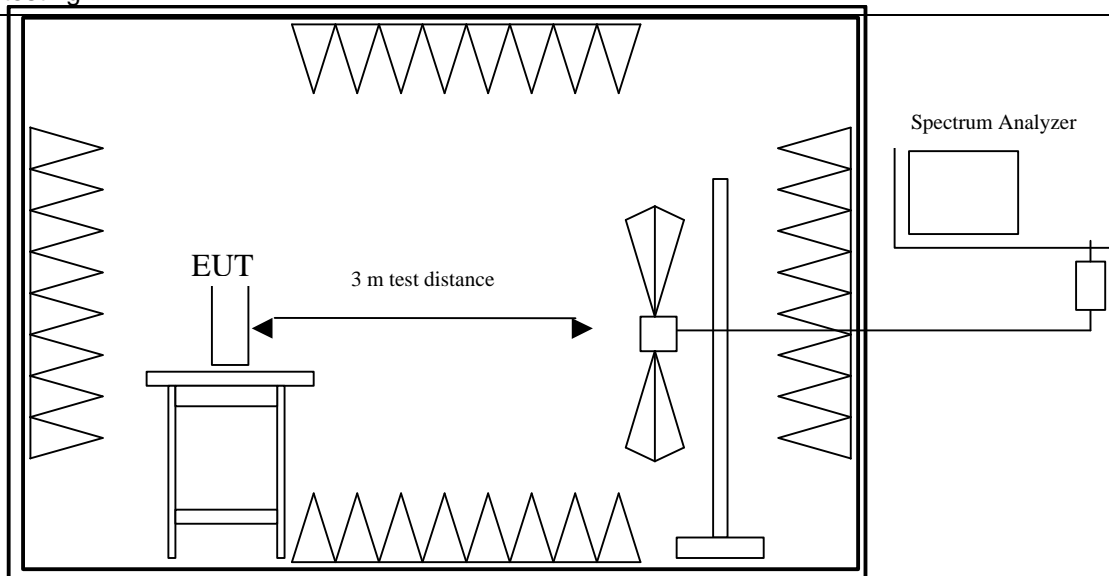
5.1. Field Strength of Emissions, Prescans in a fully-anechoic room (30 MHz – 1 GHz)

Rules and Specifications:	Sections 15.109 & 15.231
Guide:	ANSI C63.4 1997

Measurement Procedure:

Radiated emissions are measured over the frequency range from 30 MHz to 1 GHz.

Measurements were made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution bandwidth set to 100 kHz. All tests were performed at a test-distance of 3 meters. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.



Fully anechoic chamber

Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
113	Preamplifier	CPA9231A	3393	Schaffner
141	Biconical antenna	HK 116	829708/006	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
003	Fully anechoic room	No. 2	1452	Albatross Projects

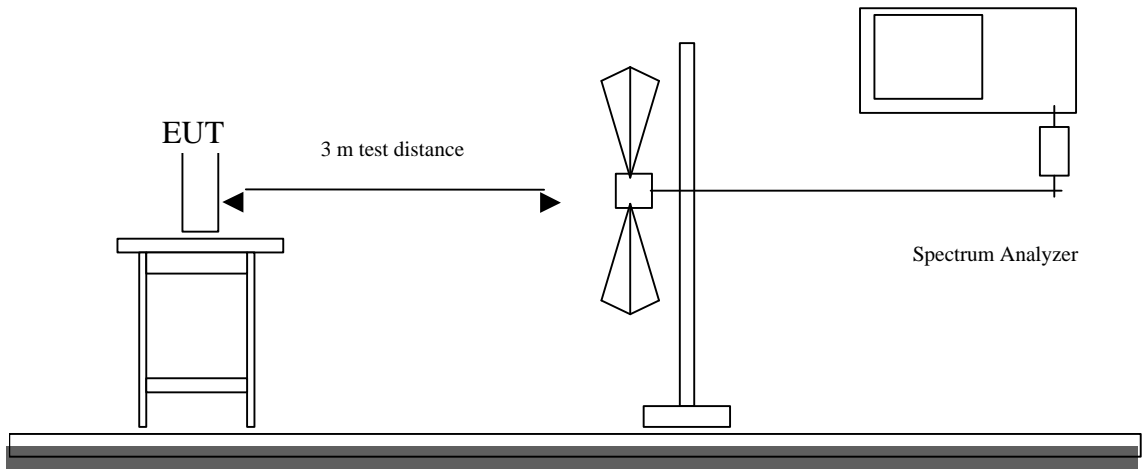
5.2. Fieldstrength of Emissions, Measurement at Open Area Test Site (30 MHz – 1 GHz)

Rules and Specifications:	Sections 15.109 & 15.231
Guide:	ANSI C63.4 1997

Measurement Procedure:

Measurement Procedure:
 For final testing an open-area test-site was used. Radiated emissions are measured over the frequency range from 30 MHz to 1 GHz.

Measurements were made in both the horizontal and vertical planes of polarisation at a open area test site using a spectrum analyser with the detector function set to CISPR. All test were performed at a test distance of 3 meters. During the tests the EUT is rotated all around, and the receiving-antenna is rased and lowered from 1m to 4m to find the maximum levels of emissions. The cables and equipment were placed and moved within the range of position likely to find their maximum emissions.



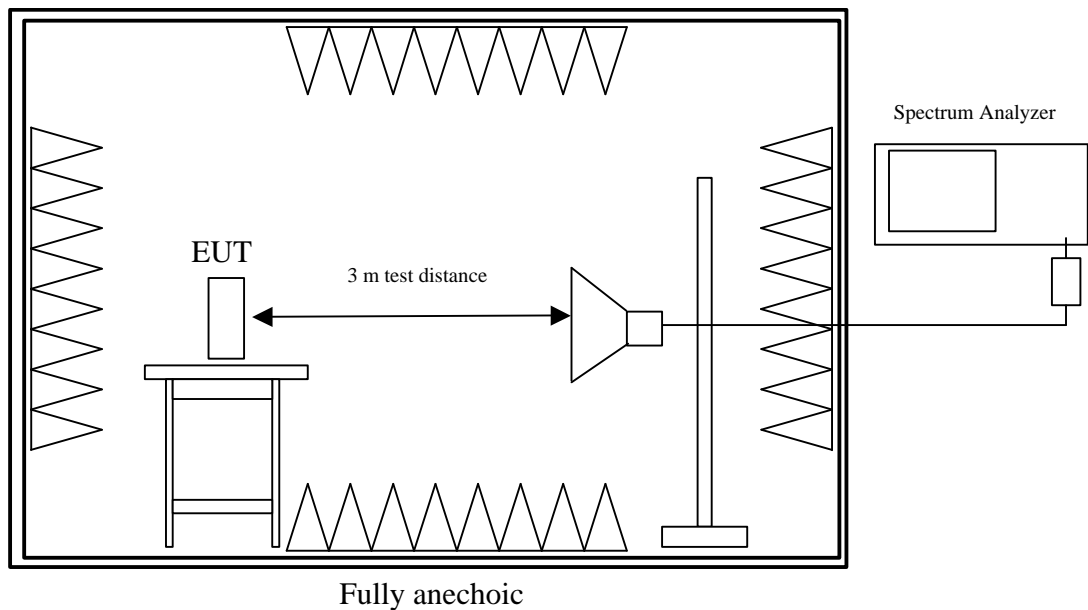
Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	EMI Receiver	ESVP	881414/009	Rohde & Schwarz
141	Biconical antenna	HK 116	829708/006	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
003	Open Field Test Site	No. 1	N/A	Senton

5.3. Fieldstrength of Emissions above 1 GHz

Rules and Specifications:	Sections 15.109 & 15.209
Guide:	ANSI C63.4 1997

Measurement Procedure:
<p>Radiated emissions are measured in the frequency range 1 GHz to the 10th harmonic of the maximum frequency of the EUT.</p> <p>Resolution and video bandwidth of the spectrum analyzer are set to 1 MHz. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing. Additional measurements are performed at critical frequencies with reduced span. EUT is rotated all around and receiving antenna is raised and lowered to find the maximum levels of emission. The cables and equipment are placed and moved within the range of position likely to find their maximum emissions.</p> <p>All tests are performed in a fully-anechoic chamber with a test-distance of 3 meters.</p> <p>If required preamplifiers are used for the whole frequency range. Special care is taken to avoid overload in transmit mode (using appropriate attenuators and filters if necessary).</p>



Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03/-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
115	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
003	Fully anechoic room	No. 2	1452	Albatross Projects

6. Photographs Taken During Testing

Test setup for radiated emission measurement (fully anechoic room)





Test setup for radiated emission measurement (open-area test-side)



7. List of Measurements

FCC Part 15			
Section(s):	Test	Page(s)	Result
15.205	Restricted Bands		Pass
15.207	AC powerline emissions		Not Applicable
15.231 (a) (1)	Periodic operation		Pass
15.231 (b)	Duty Cycle Correction		
15.231 (b)	Field strength of emissions	---	Pass
15.231 (c)	Bandwidth of emissions	---	Pass

7.1. List of Measurements According To Industry Canada RSS-210

Industry Canada RSS-210 Issue 5			
Section(s):	Test	Page(s)	Result
6.1.1. (a)	Momentary operation		Pass
6.1.1 (b)	Fieldstrengths and Frequency Bands		Pass
6.1.1.c	Bandwidth		Pass

Field strength of emissions

Rules and Specifications:	15.231 (b) Radiated Emission Limits		
Guide:	ANSI C63.4		
Limit:	In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under Section 15.231 shall not exceed the following:		
	Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
	40.66 – 40.70 70 – 130 130 - 174 174 - 260 260 – 470 above 470	2.250 1.250 1.250 to 3.750** 3.750 3750 to 12.500** 12.500	225 125 125 to 375 ** 375 375 to 1250 ** 1250

** linear interpolations

Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

Frequency (MHz)	Detector	Antenna Polarization	Analyzer Reading (dBμV)	Antenna Correction (dB/m)	Duty Cycle Correction (dB/m)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
318,26	QP	Hor	58,1	15,90	0	74,00	75,81	-1,8

***** = All emissions showed more than 20 dB margin to the limit**
 A negative value for Margin indicates, that the limit is kept.

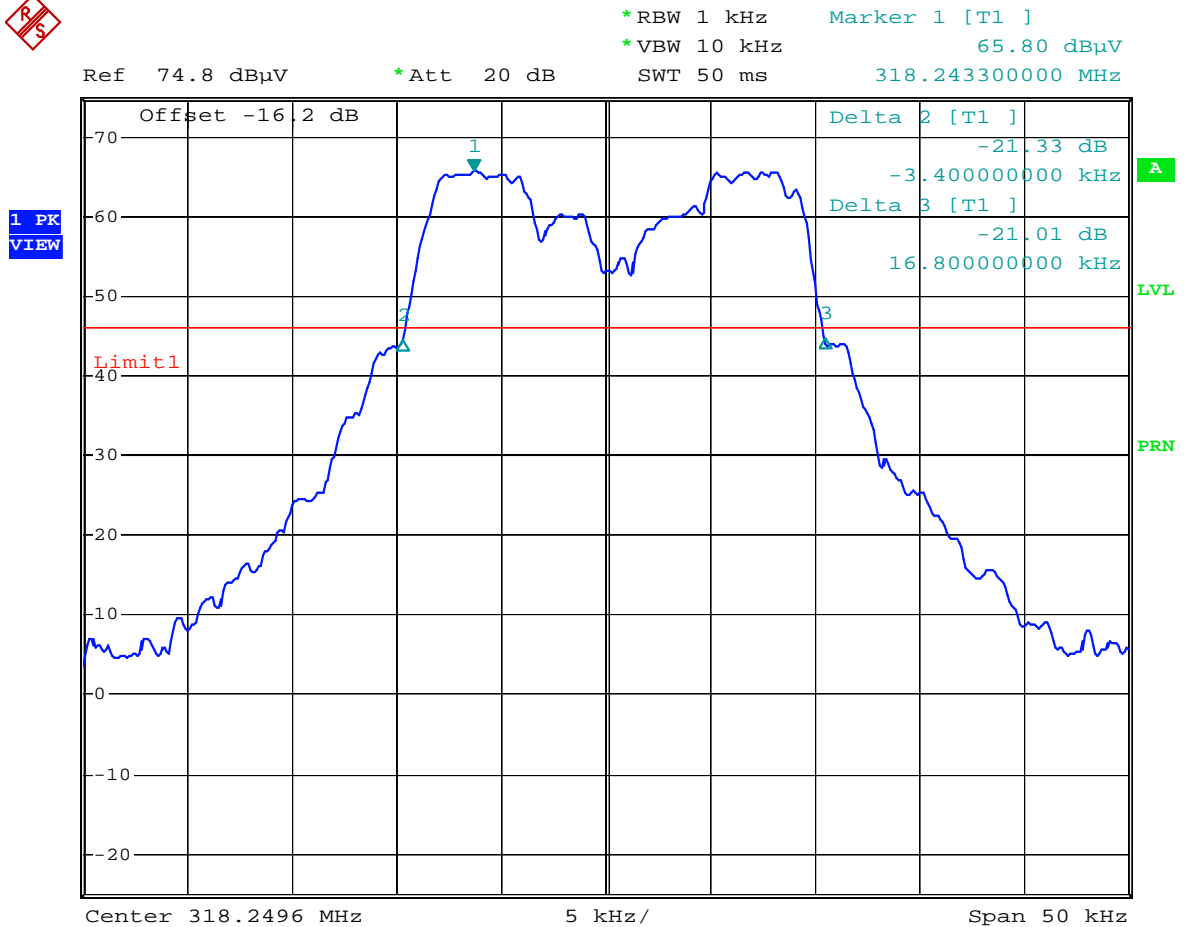
Sample calculation of erp values:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{Analyzer Reading (dB}\mu\text{V)} + \text{Antenna Correction (dB/m)} + \text{Duty Cycle Correction (dB)}$$

Test Results:	Pass
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Bandwidth of Emission

Rules and Specifications:	15.231 c
Guide:	ANSI C63.4
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB from the modulated carrier



Comment A: Futaba 30850: Bandwidth of Emission
 Date: 12.JAN.2004 16:37:13

Test Results:	Pass
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8. Referenced Regulations

All tests were performed with reference to the following regulations and standards:

<input checked="" type="checkbox"/>	FCC Part 2	Code of Federal Regulations Part 2 Frequency allocation and radio treaty matters; General rules and regulations	October 01, 1999
<input type="checkbox"/>	FCC Part 15 Subpart A	Code of Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)	May 30, 2002
<input type="checkbox"/>	FCC Part 15 Subpart B	Code of Regulations Part 15 (Radio Frequency Devices), Subpart B (Unintentional Radiators) of the Federal Communication Commission (FCC)	May 30, 2002
<input checked="" type="checkbox"/>	FCC Part 15 Subpart C	Code of Regulations Part 15 (Radio Frequency Devices), Subpart C (Intentional Radiators) of the Federal Communication Commission (FCC)	May 30, 2002
<input type="checkbox"/>	FCC Part 74 Subpart H	Code of Regulations Part 15 (Radio Frequency Devices), Subpart H (Low Power Auxiliary Stations) of the Federal Communication Commission (FCC)	October 20, 1997
<input checked="" type="checkbox"/>	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz - 40 GHz	October, 1992
<input checked="" type="checkbox"/>	RSS-210	Radio Standards Specification RSS-210 Issue 5 for Low Power Licence-Exempt Radiocommunication Devices of Industry Canada	November, 2001

Charts taken during testing

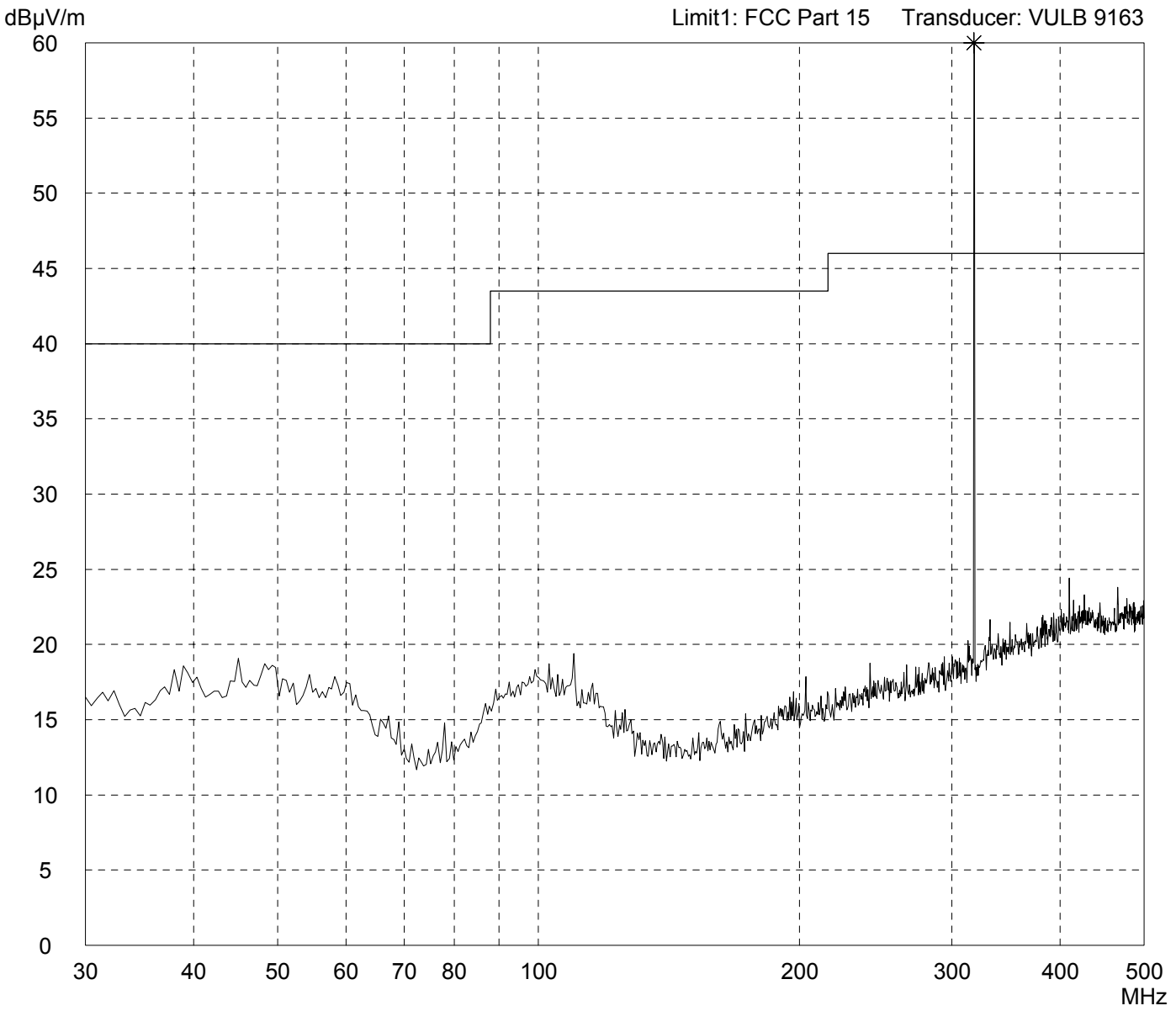
Radiated Emission Test 30 MHz - 500 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:	
- 3 x 1.5 V battery supply	
- Transmitting continuously	
- EUT flat on table (Pos. 1)	

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

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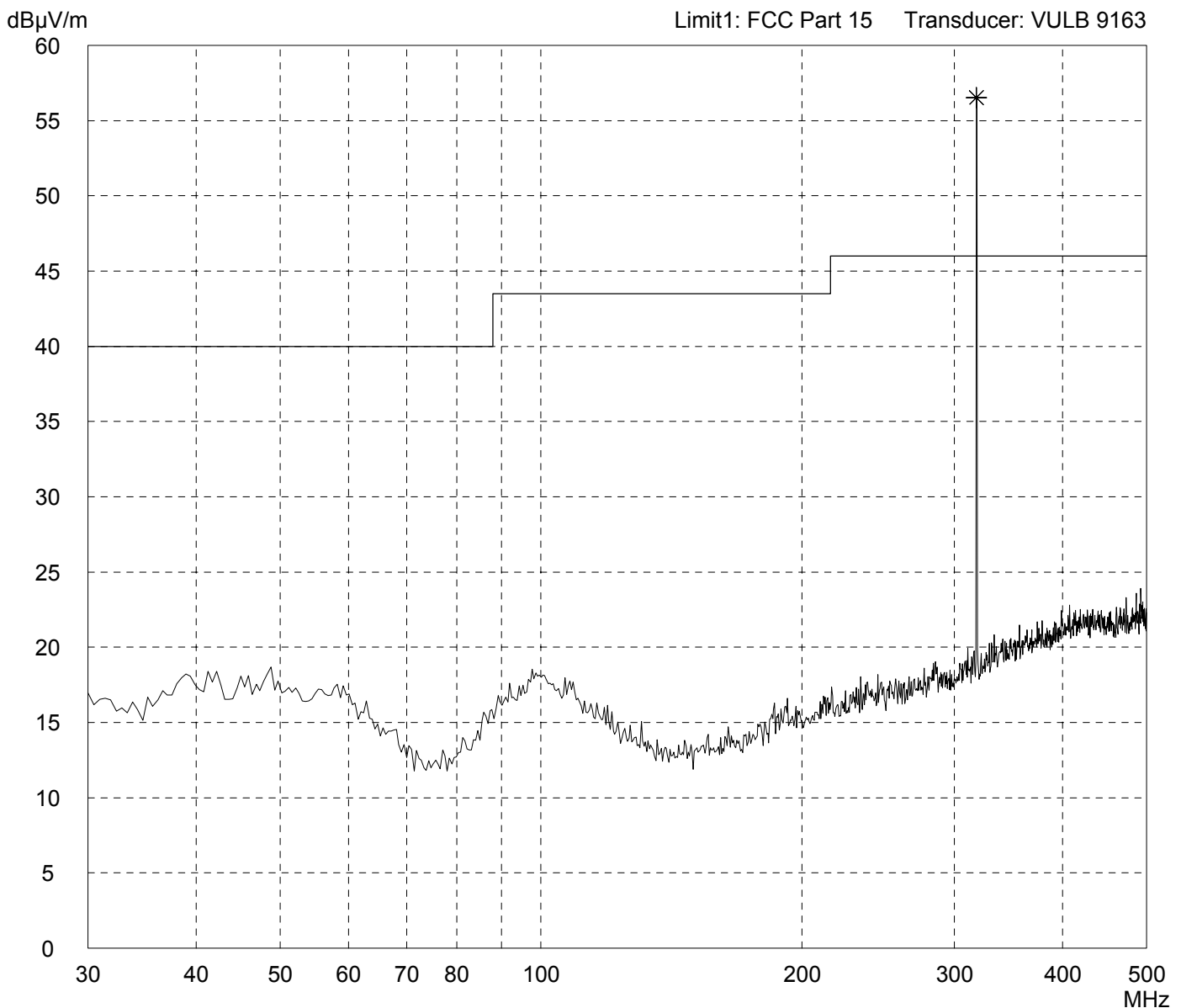
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Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:
 - 3 x 1.5 V battery supply
 - Transmitting continuously
 - EUT flat on table (Pos. 1)

Detector: Peak

List of values:
 10 dB Margin 50 Subranges



Result: Prescan

Project file:
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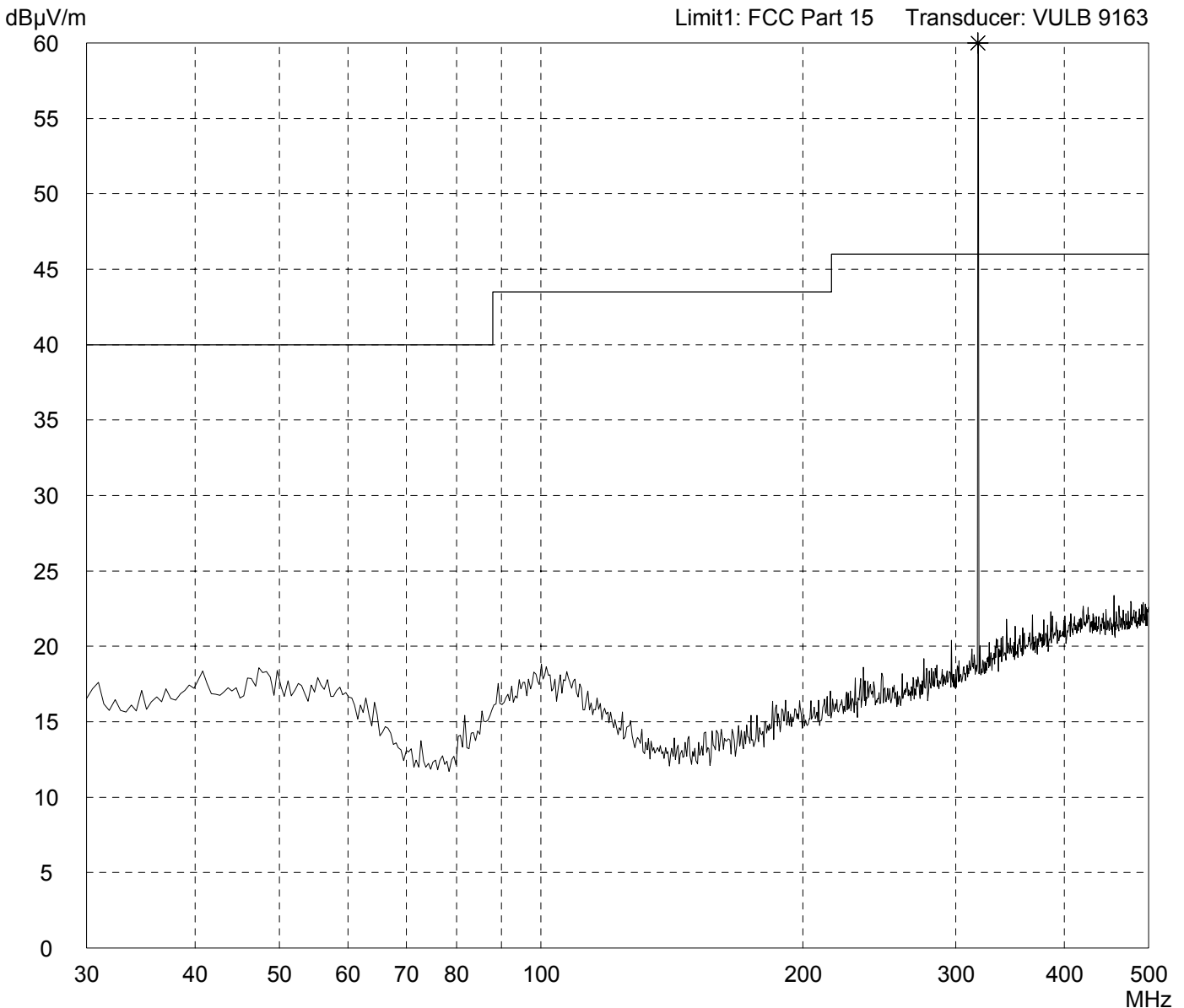
Radiated Emission Test 30 MHz - 500 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:	
- 3 x 1.5 V battery supply	
- Transmitting continuously	
- EUT on right side (Pos. 2)	

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

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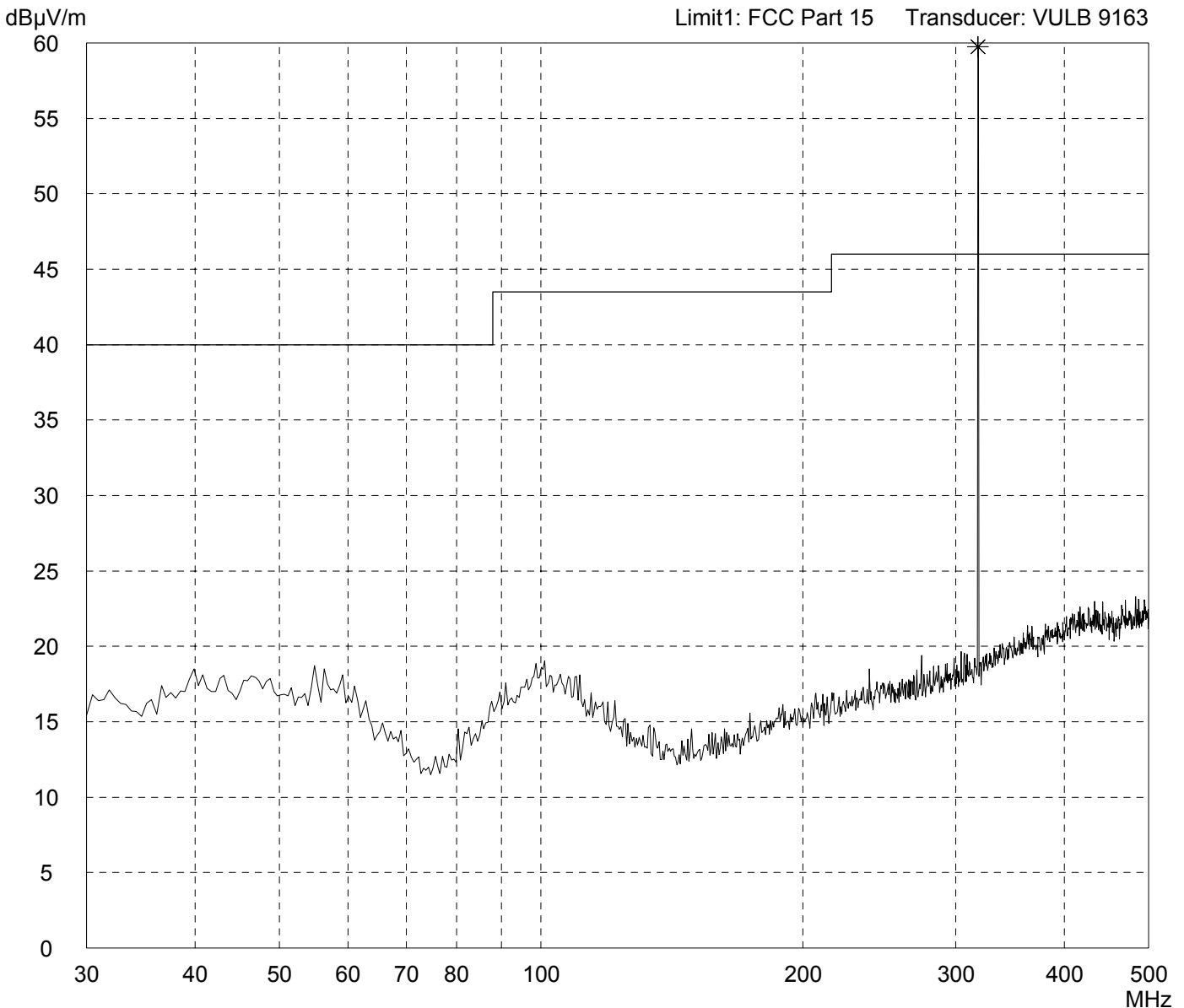
Radiated Emission Test 30 MHz - 500 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:	
- 3 x 1.5 V battery supply	
- Transmitting continuously	
- EUT on right side (Pos. 2)	

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

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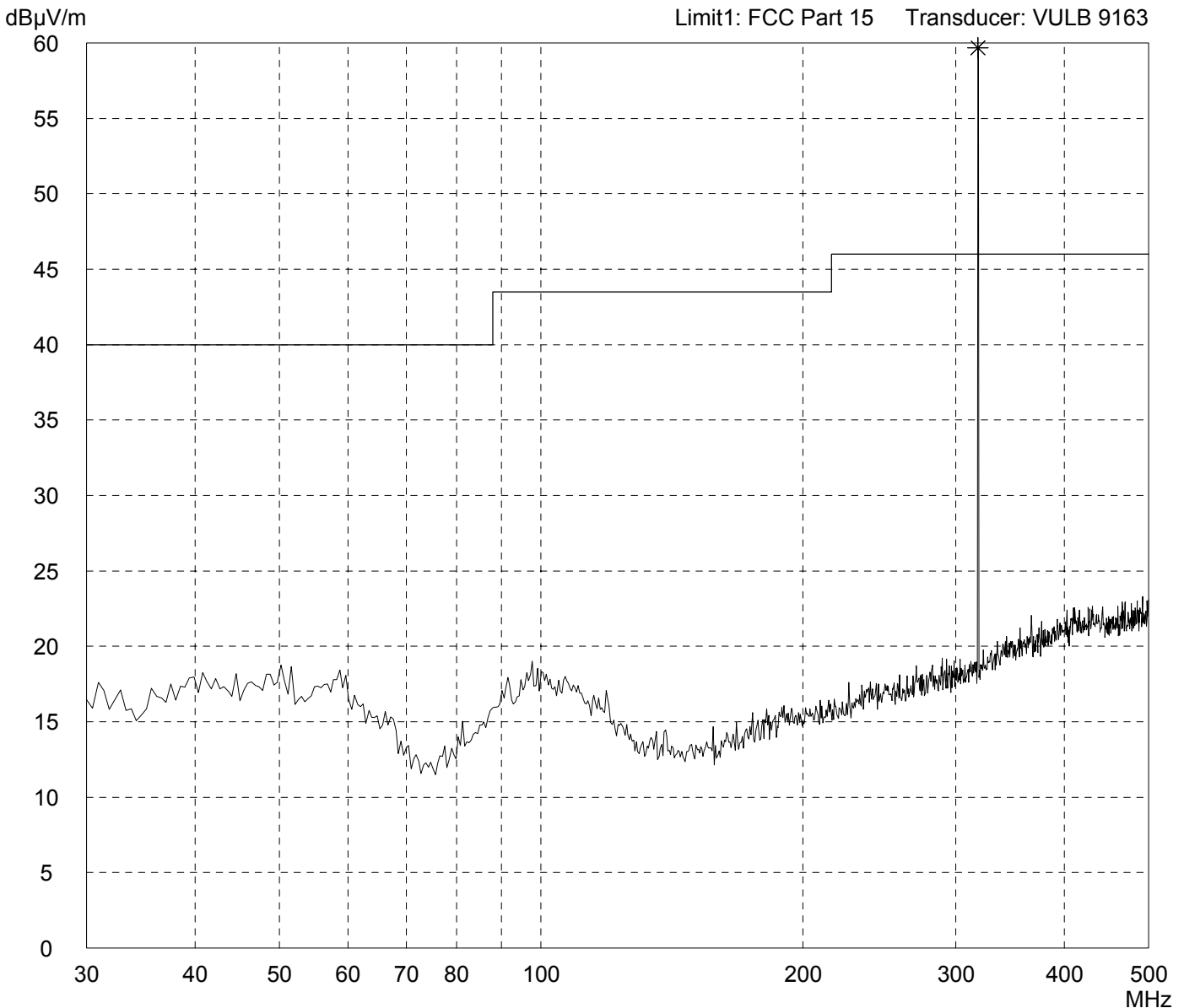
Radiated Emission Test 30 MHz - 500 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 3 x 1.5 V battery supply - Transmitting continuously - EUT in upright position (Pos. 3)

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

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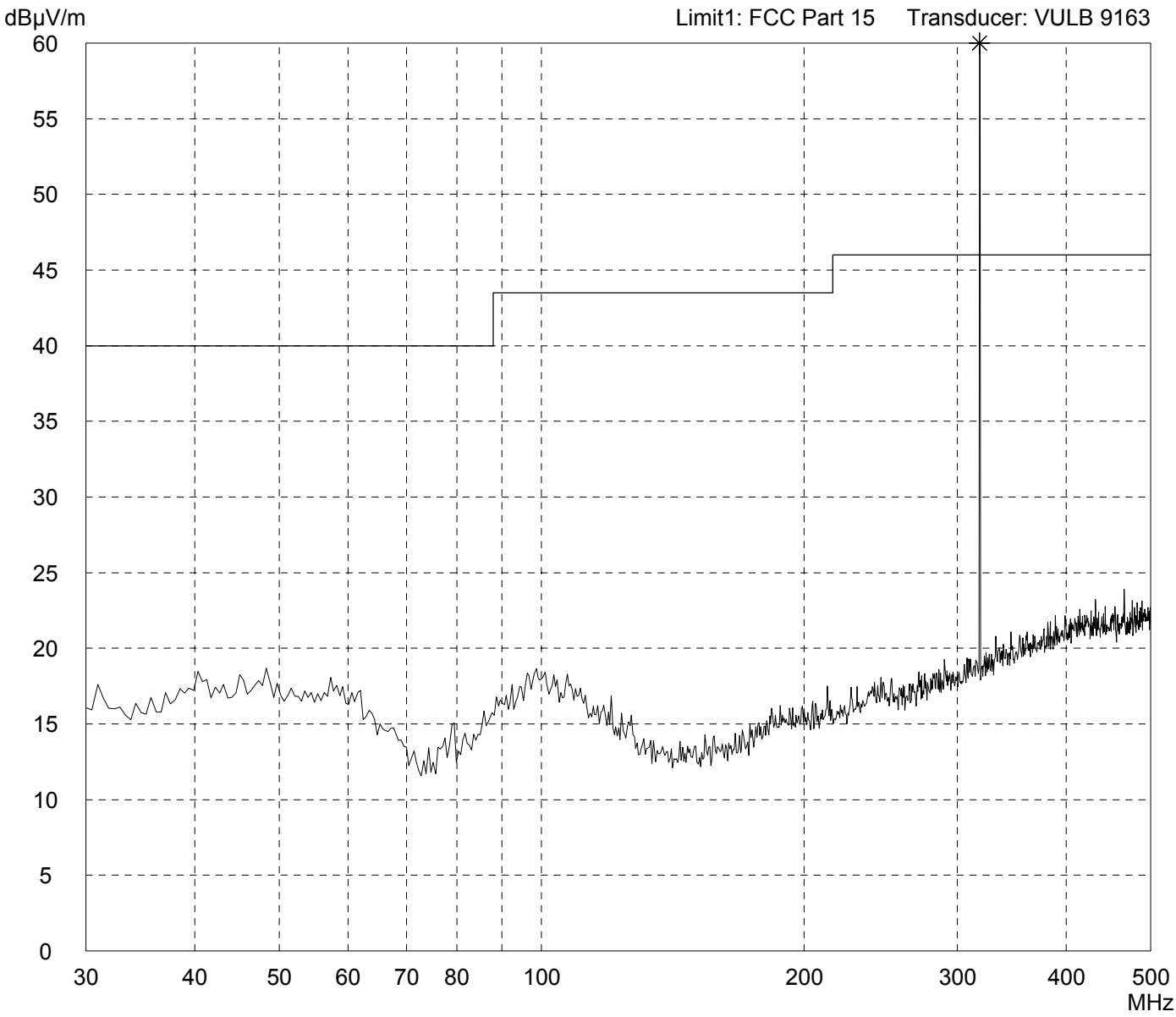
Radiated Emission Test 30 MHz - 500 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:	
- 3 x 1.5 V battery supply	
- Transmitting continuously	
- EUT in upright position (Pos. 3)	

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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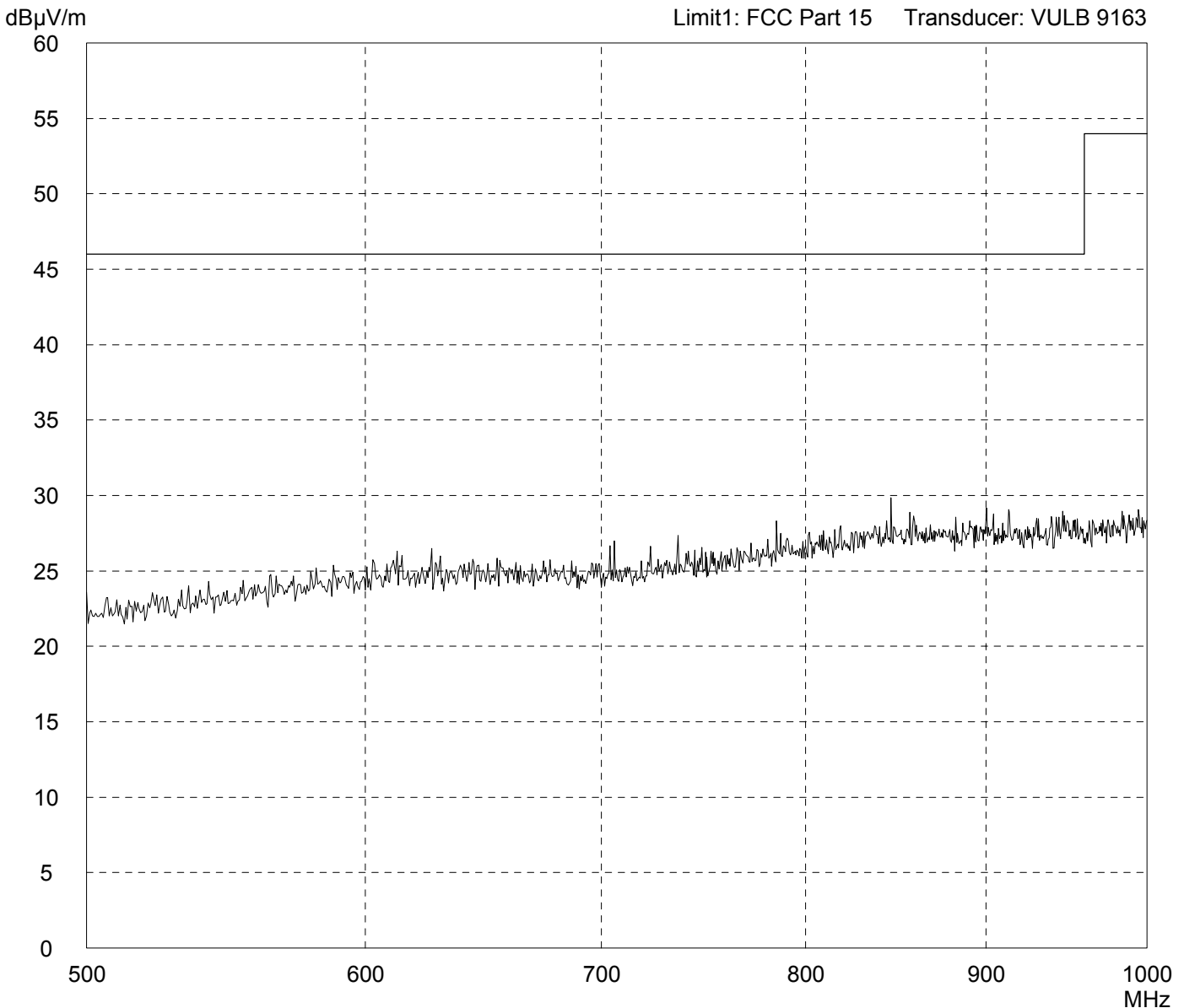
Result: Prescan

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Radiated Emission Test 500 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

<p>Model: FRN601U-T</p> <p>Serial no.: 825</p> <p>Applicant: Futaba Corporation</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 3 metres Horizontal Polarization</p> <p>Date of test: 01/12/2004 Operator: M. Steindl</p> <p>Test performed: automatically File name: default.emi</p>	<p>Comment:</p> <ul style="list-style-type: none"> - 3 x 1.5 V battery supply - Transmitting continuously - EUT flat on table (Pos. 1) - Note: with WHKS500-10SS high-pass-filter
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<p>Detector: Peak</p>	<p>List of values: 10 dB Margin 50 Subranges</p>
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<p>Result: Prescan</p>	<p>Project file: 55503-30850-1</p> <p style="text-align: right;">Page of Pages</p>
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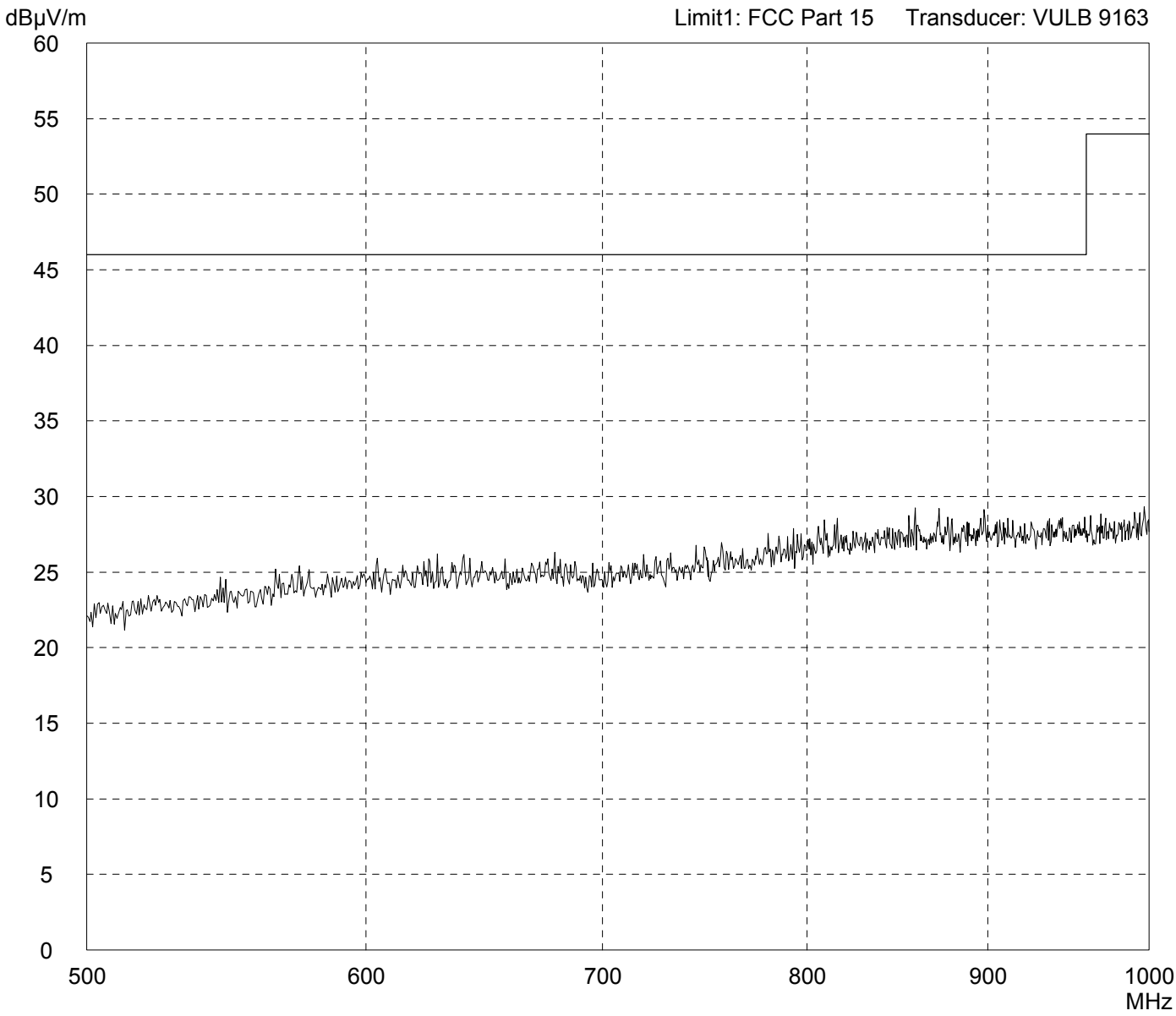
Radiated Emission Test 500 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:	
- 3 x 1.5 V battery supply	
- Transmitting continuously	
- EUT flat on table (Pos. 1)	
- Note: with WHKS500-10SS high-pass-filter	

Detector: Peak

List of values:	50 Subranges
10 dB Margin	



Result: Prescan

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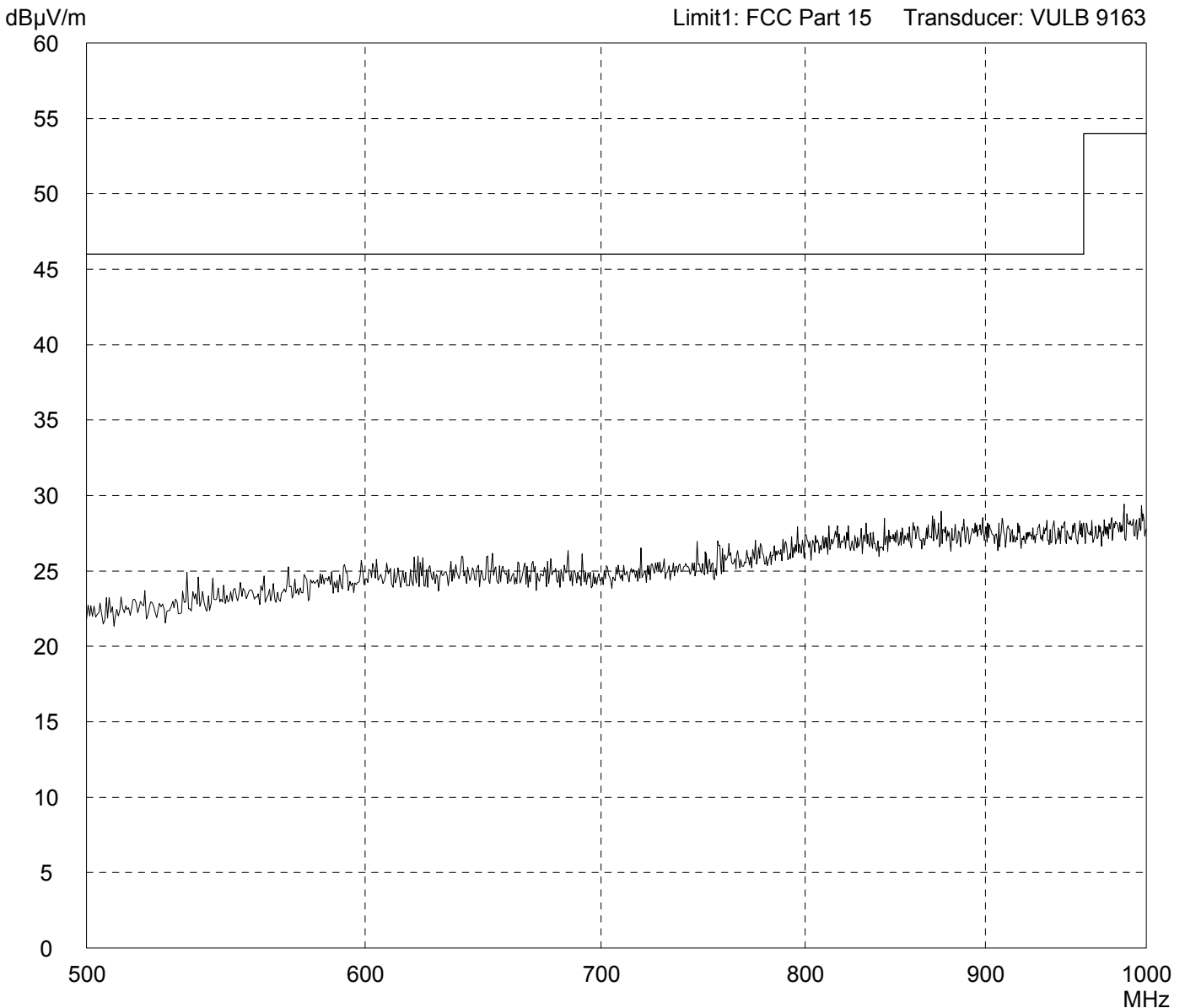
Radiated Emission Test 500 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 3 x 1.5 V battery supply - Transmitting continuously - EUT on right side (Pos. 2) - Note: with WHKS500-10SS high-pass-filter

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

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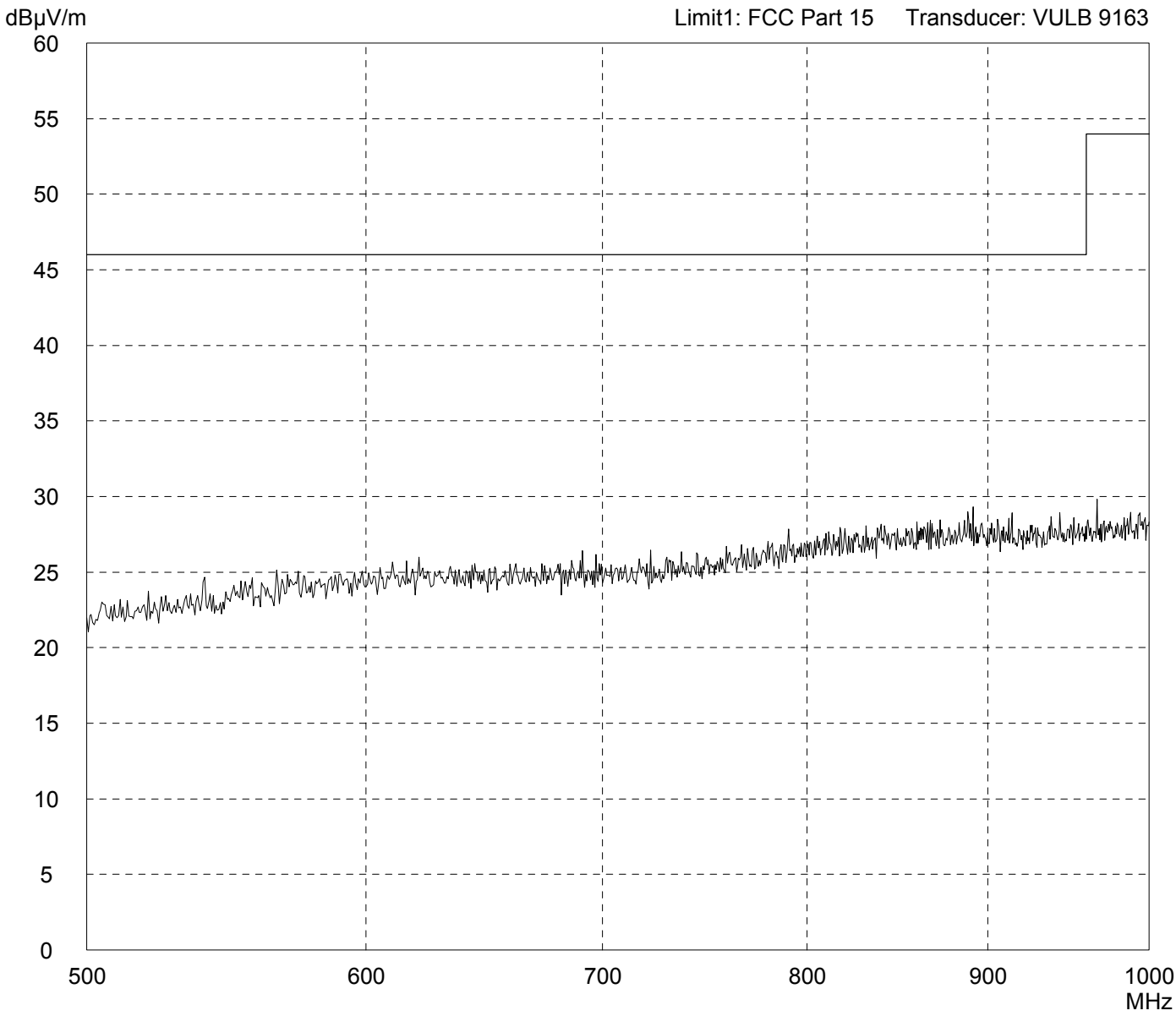
Radiated Emission Test 500 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 3 x 1.5 V battery supply - Transmitting continuously - EUT on right side (Pos. 2) - Note: with WHKS500-10SS high-pass-filter

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Prescan

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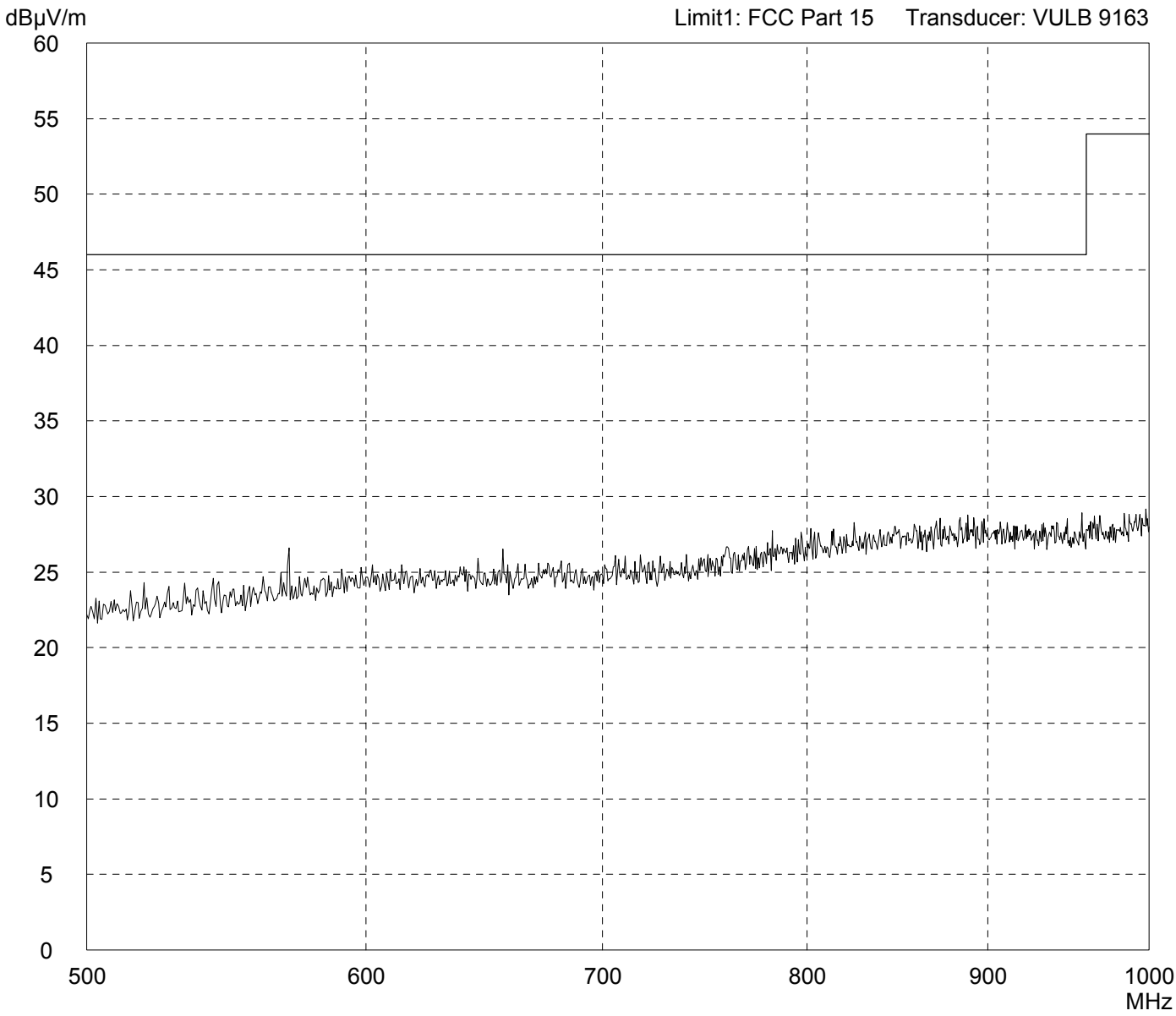
Radiated Emission Test 500 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 3 x 1.5 V battery supply - Transmitting continuously - EUT in upright position (Pos. 3) - Note: with WHKS500-10SS high-pass-filter

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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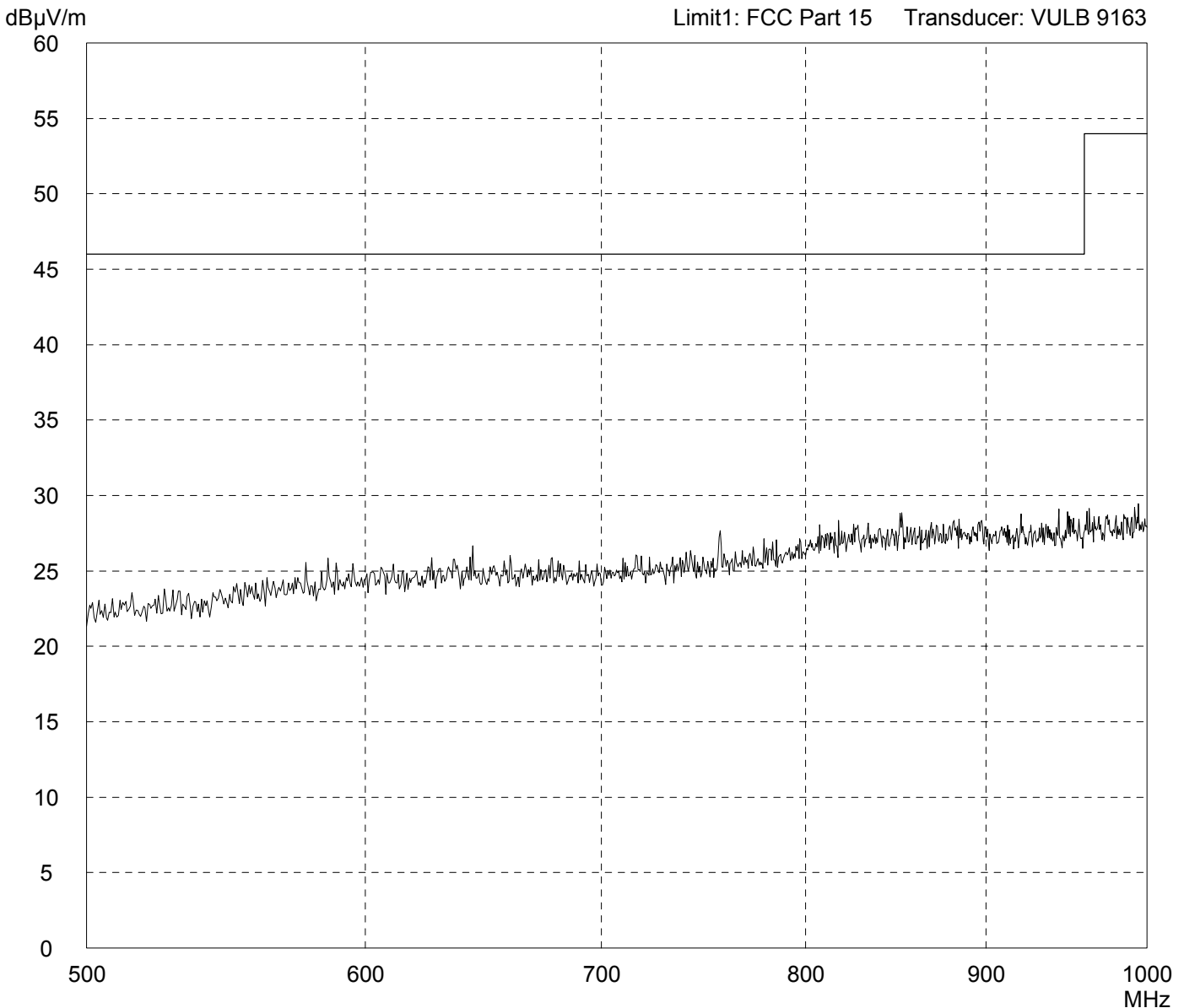
Result: Prescan

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Radiated Emission Test 500 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

<p>Model: FRN601U-T</p> <p>Serial no.: 825</p> <p>Applicant: Futaba Corporation</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 3 metres Vertical Polarization</p> <p>Date of test: 01/12/2004 Operator: M. Steindl</p> <p>Test performed: automatically File name: default.emi</p>	<p>Comment:</p> <ul style="list-style-type: none"> - 3 x 1.5 V battery supply - Transmitting continuously - EUT in upright position (Pos. 3) - Note: with WHKS500-10SS high-pass-filter
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<p>Detector: Peak</p>	<p>List of values: 10 dB Margin 50 Subranges</p>
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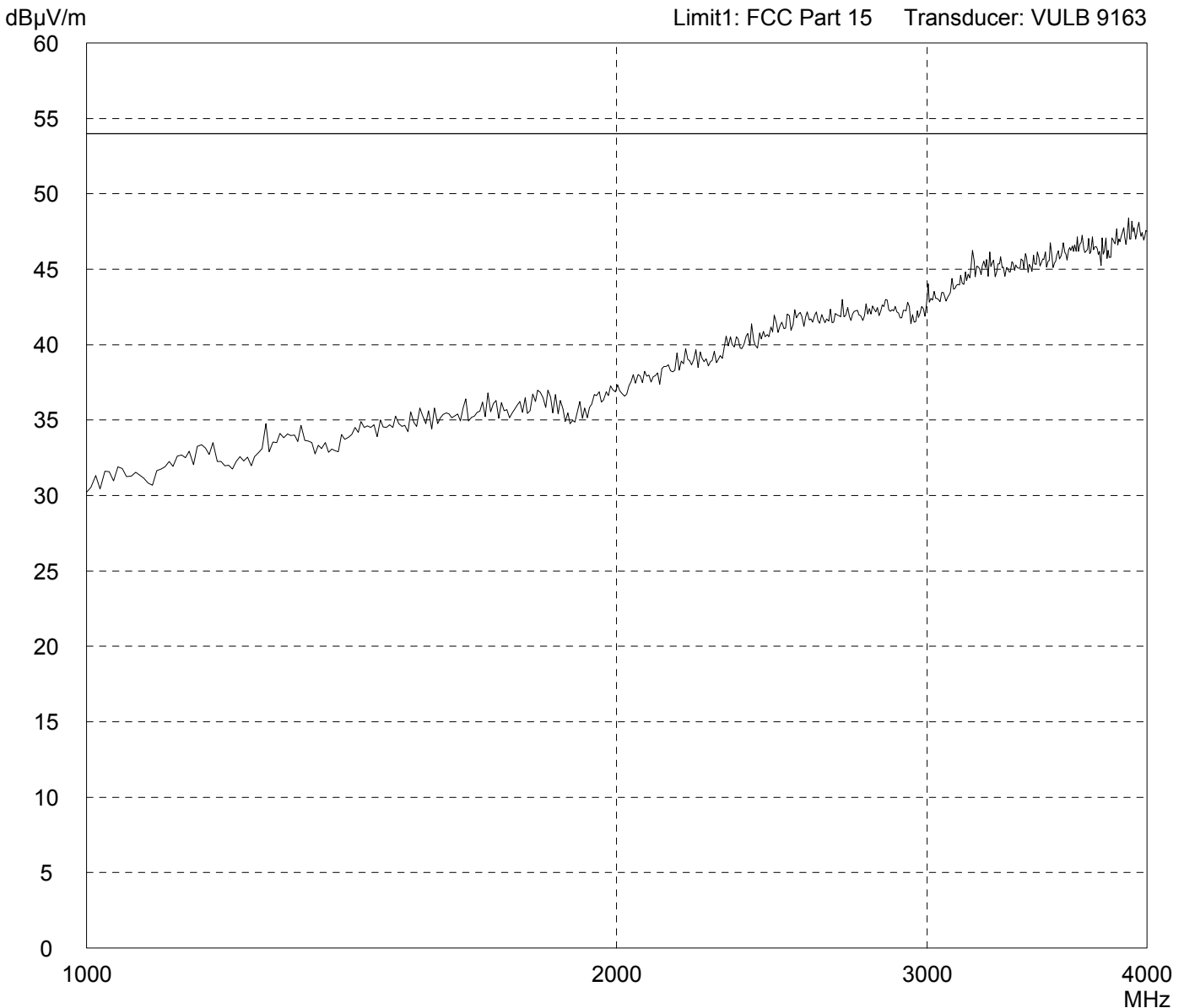


<p>Result: Prescan</p>	<p>Project file: 55503-30850-1</p> <p style="text-align: right;">Page of Pages</p>
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Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

<p>Model: FRN601U-T</p> <p>Serial no.: 825</p> <p>Applicant: Futaba Corporation</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 3 metres Horizontal Polarization</p> <p>Date of test: 01/12/2004 Operator: M. Steindl</p> <p>Test performed: automatically File name: default.emi</p>	<p>Comment:</p> <ul style="list-style-type: none"> - 3 x 1.5 V battery supply - Transmitting continuously - EUT flat on table (Pos. 1) - Note: with WHKS500-10SS high-pass-filter
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<p>Detector: Peak</p>	<p>List of values: Selected by hand</p>
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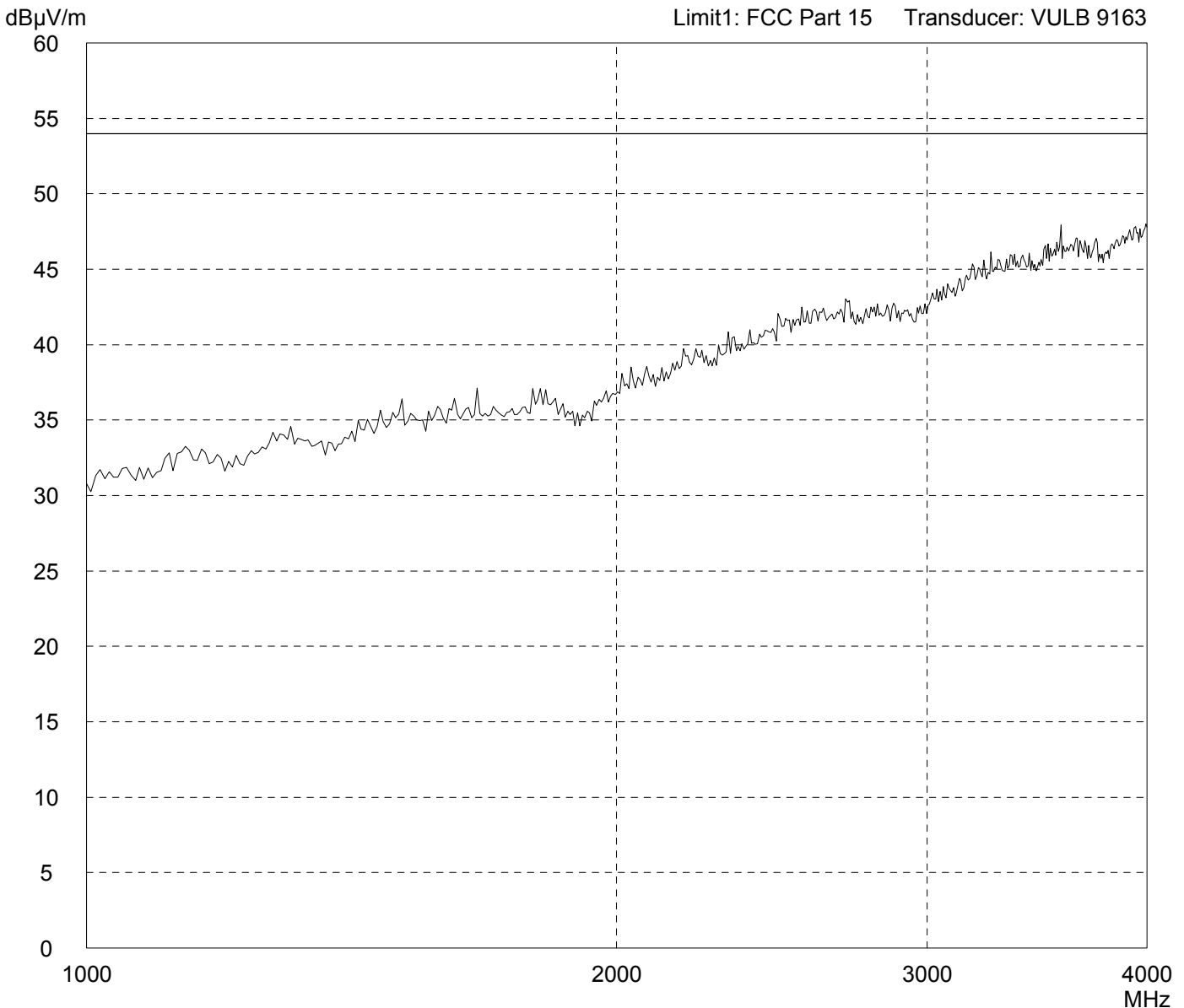


<p>Result: Limit kept</p>	<p>Project file: 55503-30850-1</p> <p style="text-align: right;">Page of Pages</p>
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Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

<p>Model: FRN601U-T</p> <p>Serial no.: 825</p> <p>Applicant: Futaba Corporation</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 3 metres Vertical Polarization</p> <p>Date of test: 01/12/2004 Operator: M. Steindl</p> <p>Test performed: automatically File name: default.emi</p>	<p>Comment:</p> <ul style="list-style-type: none"> - 3 x 1.5 V battery supply - Transmitting continuously - EUT flat on table (Pos. 1) - Note: with WHKS500-10SS high-pass-filter
---	---

<p>Detector: Peak</p>	<p>List of values: Selected by hand</p>
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<p>Result: Limit kept</p>	<p>Project file: 55503-30850-1</p> <p style="text-align: right;">Page of Pages</p>
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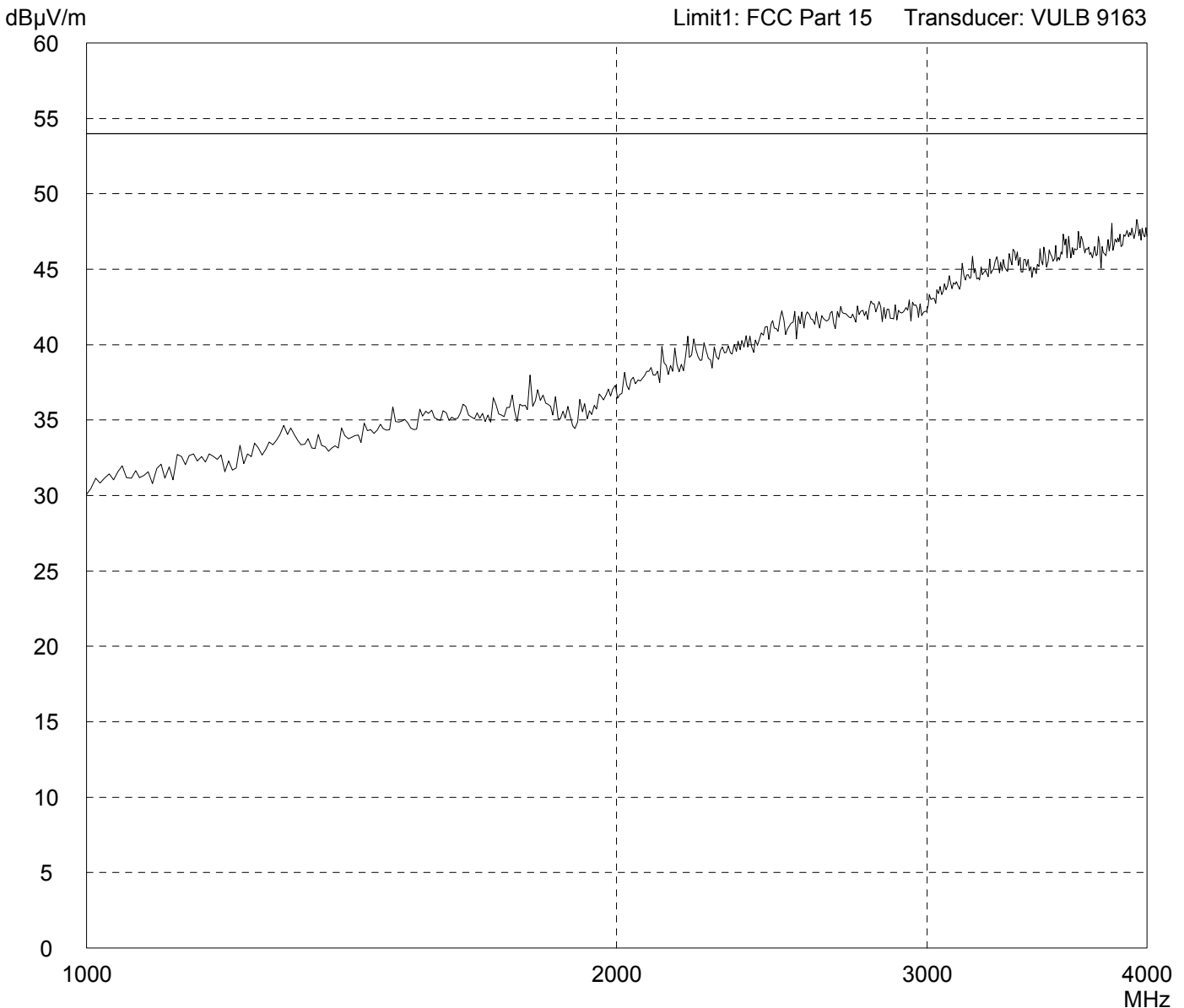
Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: FRN601U-T	
Serial no.: 825	
Applicant: Futaba Corporation	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 3 x 1.5 V battery supply - Transmitting continuously - EUT on right side (Pos. 2) - Note: with WHKS500-10SS high-pass-filter

Detector: Peak

List of values: Selected by hand



Result: Limit kept

Project file: 55503-30850-1	Page of Pages
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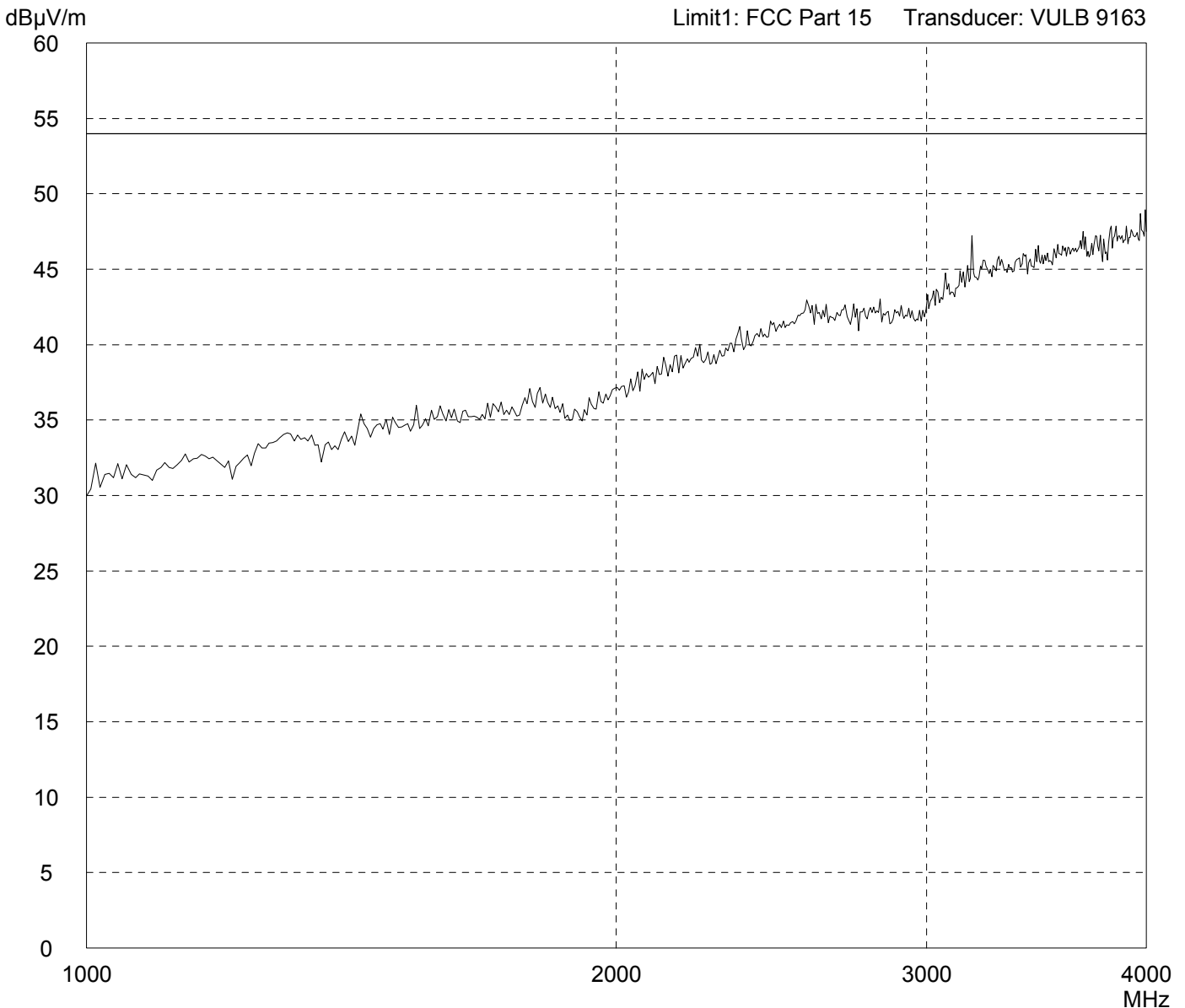
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Detector: Peak

List of values: Selected by hand



Result: Limit kept

Project file: 55503-30850-1	Page of Pages
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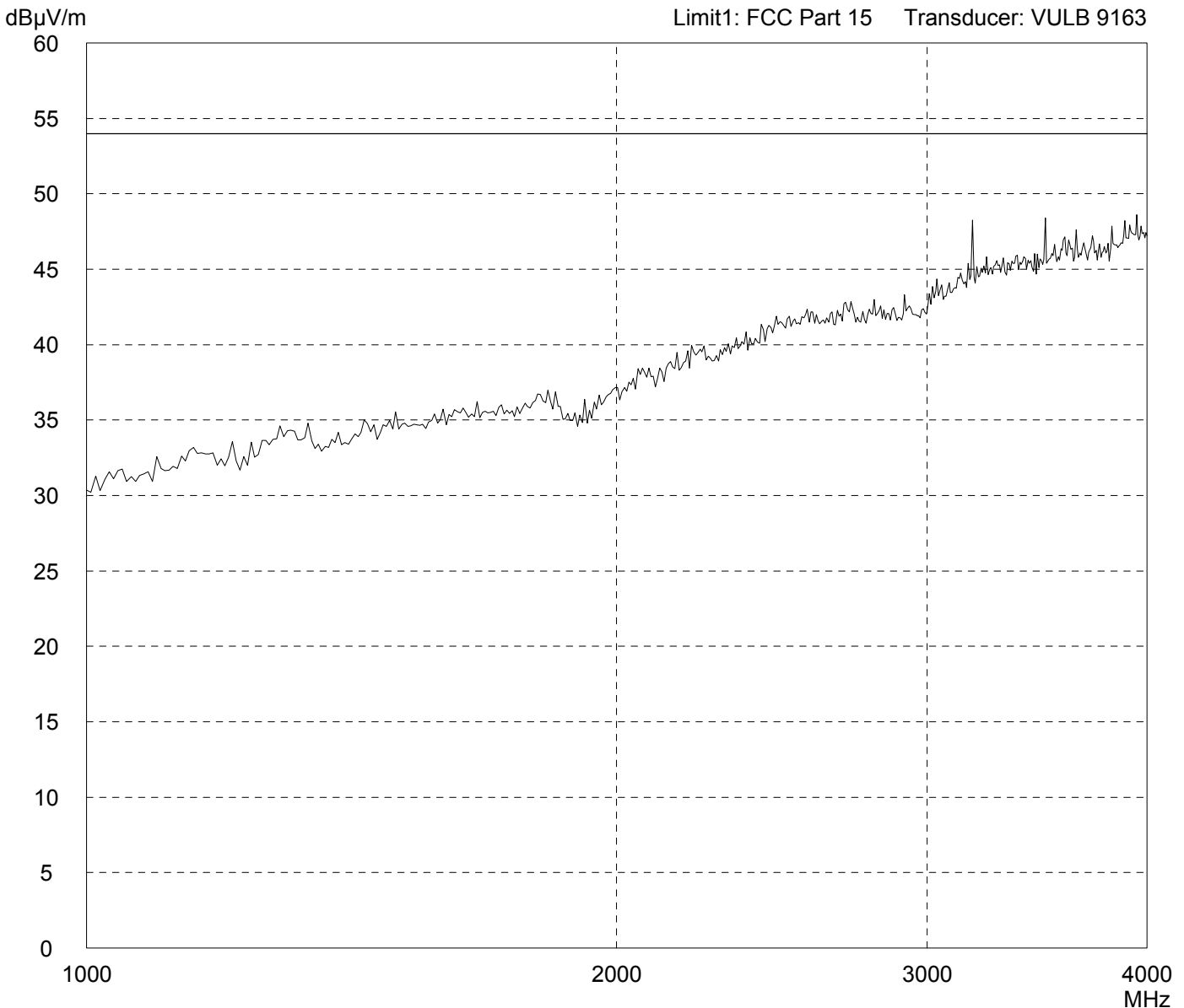
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Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/12/2004	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment: - 3 x 1.5 V battery supply - Transmitting continuously - EUT in upright position (Pos. 3) - Note: with WHKS500-10SS high-pass-filter

Detector: Peak

List of values: Selected by hand



Result: Limit kept

Project file: 55503-30850-1	Page of Pages
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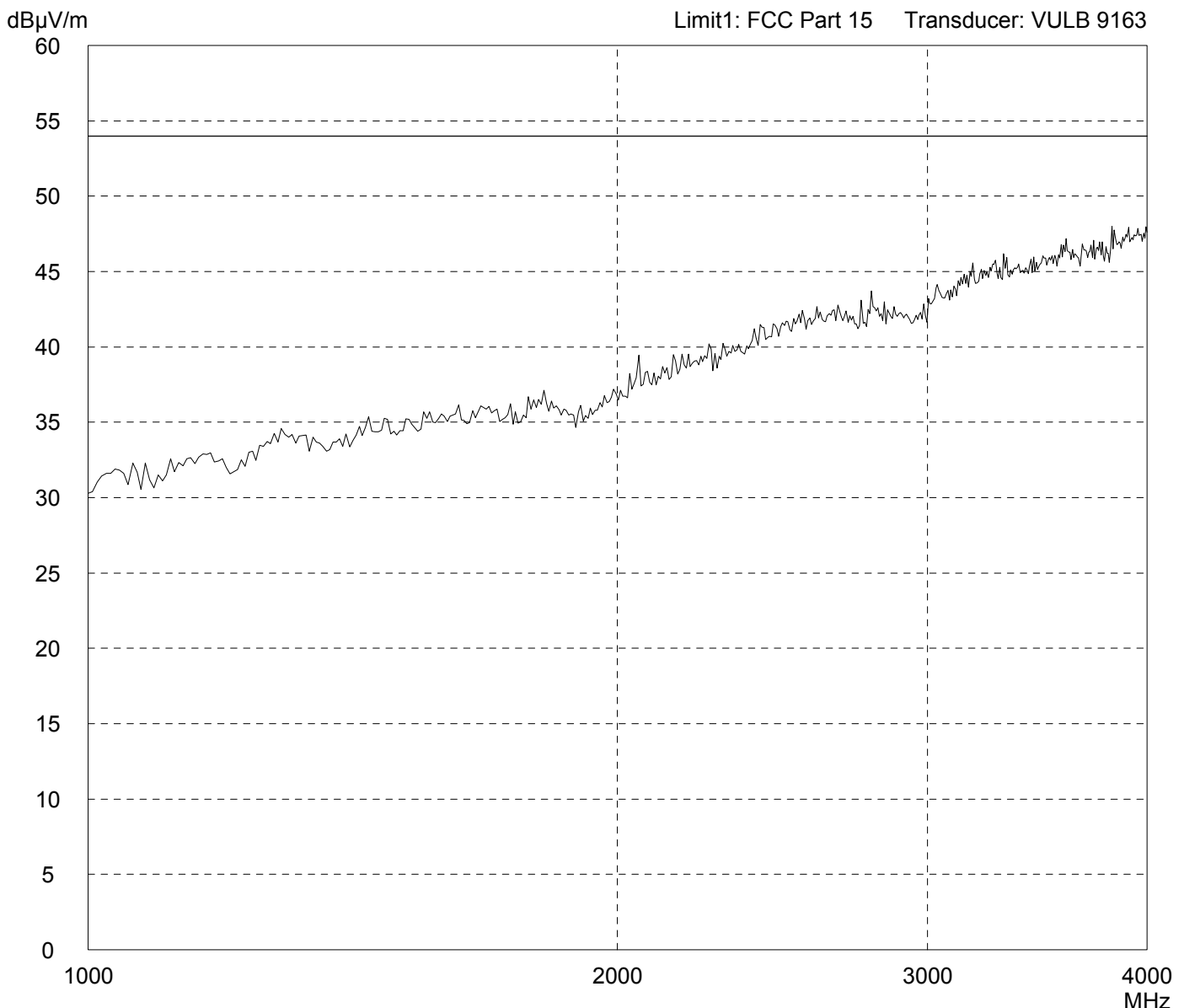
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List of values: Selected by hand



Result: Limit kept

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